

RUMANIA

616.931-078.734

CALALE, Gh., Dr., STANICA, Ecaterina, Dr., STOIAN, Cecilia, Biologist, and MEITERT, Eugenia, Dr. Work performed at the "Dr I. Cantacuzino" Institute (Institutul "Dr I. Cantacuzino"), Bucharest.

"Rapid Laboratory Diagnosis of Diphtheria. Identification of Corynebacterium Diphtheriae with the Aid of Agglutination Tests on Slides."

Bucharest, Microbiologia, Parazitologia, Epidemiologia, Vol 11, No 4, Jul-Aug 66, pp 377-378.

Abstract: The authors describe the slide agglutination tests which can be used to identify diphtheria bacteria colonies after 24 hours of incubation. This method is considerably faster than the classic identification techniques.

Manuscript submitted 2 April 1966.

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- 35 -

TSURAL, I.; PAPPO, A.; CALALL, A.; TZANE, G.

Postoperative functional examination of the bile ducts with the
aid of chromocholoscopy. Cesk. gastroent. vyz. 15 no.5:321-325
Ag '61.

I. II. chirurgicka klinika lekarske fakulty, Bucurest, reditel prof.
I. Tzurai.
(BILE DUCTS physiol) (BILLARY TRACT surg)

CALANGIU, Victor, technician

The life of the construction site... on the stage. Constr.
Buc 16 no.7374 22 F'64.

1. Instructor voluntar al Brigazii artistice de agitatie de
la santierul 106 (Combinatul de industrializare complexa a
lemnului, Pitesti) al Trustului nr.1.

COUNTRY	: RUSSIA
CATEGORY	: Organic Chemistry. Natural Substances and Their Synthetic Analogs
ABS. JOUR.	: RZhKhim., No. 1 1960, No. 1406
AUTHOR	: Saper, L.; <u>Sol'shnev, R.</u>
TYPE	: -
TITLE	: Natural Heterocyclic Aromatic Compounds. <u>Review</u>
ORIG. PUB.	: Farmacia (RPR), 1959, 7, No 3, 203-207
ABSTRACT	: A review.
CAPD:	
1/1	

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7

DUMITRESCU, S.; NICOLESCU-CATARGI, Al.; CALB, M.

The antipyretic action of cortisone in fever induced by sodium nucleinate.
Rumanian M Rev. no.413-5 '61;
(CORTISONE pharmacol) (FEVER exper.)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7

MARTALOGU, N.; CALBOREANU, A.; NEAMU, L.

The proportional counter 45¹ for the absolute measurements of
activities. Studii cerc fiz 12 no.4:893-897 '61.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7"

CALBOREANU, I.; RATIU, L.

From the experience of processing 100% cellulose fibers in the Medias Vasia
Vasilescu Spinning Mill. p.415

INDUSTRIA TEXTILA. (Asociatia Stintifica a Inginerilor si Tehnicienilor din
Romania si Ministerul Industriei Usoare)
Bucuresti, Rumania
Vol. 10, no.10, Oct. 1959

Monthly List of East European Accessions (EEAI) LC., Vol. 9, no.1, Jan. 1960
Uncl.

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7

POENARU, S.; CALCAIANU, G.; POPESCU, H.

Electromyographic aspects of some endocrine diseases. Stud.
cercat. endocr. 15 no.1:49-61 '64.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7

TUDOR, I.; CALCAIANU, Gh.; SERBANESCU, T.

Special electro-clinical aspects of petit-mal epilepsy. Stud.
cercet. neurol. 10 no.2:125-134 Mr'65.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7"

SERBANESCU, T., dr.; TUDOR, I., dr.; CALGAIANU, Gh., dr.

Activation with baytinal in electroencephalography. I. Activation in epilepsy. Neurologia (Bucur) 10 no.2:167-182 Mr-Ap'65.

1. Lucrare efectuata in Sectia clinica a Institutului de neurologie al Academiei Republicii Populare Romane.

CALCAN, V.

RUMANIA/Chemical Technology - Chemical Products and Their
Application, Part 4. - Synthetic Polymers,
Plastics.

H-29

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 48729
Author : I. Ionescu, V. Calcan, N. Goldenberg
Inst : -
Title : Plastics Based on Furfural and Its Derivatives. IV.
Effect of Thermal Treatment on Mechanical Strength of
Textolite Based on Furfural Resin.
Orig Pub : Studii si cercetari nec. apl., 1957, 8, No 1, 171-187
Abstract : The thermal treatment of textolite (produced by impre-
gnating cotton cloth with a resin solution of a tempe-
rature of dropping according to Ubbelode of 108 to 110°
and by pressing at 160° and keeping it 4 min. per mm
under the pressure of 100 kg per sq.cm) in a certain
temperature range and duration increases the limits of
compression strength (CS), of static bending strength

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RUMANIA/Chemical Technology - Chemical Products and Their
Application, Part 4. - Synthetic Polymers,
Plastics.

H-29

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 48729

(SBS) and of the lamination resistance (LR), but the impact resistance is decreased at any combination of temperature and duration. It was found in the result of the study that it is expedient to apply thermal treatment to textolite only from 90 to 110° and in the duration of 90 hours; CS and SBS increase in such a case by 15 to 25%, and the impact resistance drops 15 to 25%. All the indices of the mechanical strength of the material deteriorate after a thermal treatment at high temperatures (140 to 150°).

See report III in RZhKhim, 1957, 62022.

Card 2/2

COUNTRY : ROMANIA
CATEGORY : Chemical Technology, Chemical Products and Their Applications. Synthetic Polymers. *
ABS. JOUR. : RZKhim., no. 19, 1959, No. 69710
AUTHOR : Galcan, V.; Ionescu, I; Goldenberg, N.
INST. : Romanian Academy
TITLE : Plastics Derived from Furfural and Its Derivatives. V. Effect of thermal Treatment on **
ORIG. PUB. : Studii si cercetari nec. apl. Acad.RPR, 1957,
8, No 3, 847-863
ABSTRACT : Based on the results of a study that investigated the effect of thermal treatment (60, 90, 110 and 130° at 12, 24, 48 and 72 hours duration) on the water and oil resistances of the phenol-furfural textolite (T) it was established that after thermal treatment at severe conditions (130°, 72 hours) a sample of T,

**Water and Oil Resistances of Textolite Derived from the Phenol-Furfural Resin.
*Plastics.
CARD: 1/3

COUNTRY :	H
CATEGORY :	
ABC. JOUR. :	RZKhim., No. 19, 1959, No. 69710
AUTHOR :	
INST. :	
TITLE :	
ORIG. PUB. :	
ABSTRACT Con'd	after 24 hours immersion in water at 100°, loses some of its original weight (0.4% on the average). After thermal treatment performed at relatively mild conditions (60°, 72 hours) the absorption of water by a sample comprises approx. 2.5%. The lowering of water temperature (to 50 and 25°), in which a T sample is being kept, lowers considerably the quantity of absorbed water. The variation in oil temperature (in the 25-100° limits), on the other hand, has very little effect on the quantity
CARD:	2/3

H - 149

COUNTRY :	
CATEGORY :	H
ABS. JOUR. :	RZKhim., No. 19, 1959, No. 69710
AUTHOR :	
JOURNAL :	
TITLE :	
ORIG. PUB. :	
ABSTRACT Cont'd	: of oil absorbed by a T sample. The greatest variations occurring in the measurements of material samples during thermal treatment, water and oil absorption take place along its thickness. For Part IV see Ref. Zhur.-Khimiya, 1958, No 14, 48729. -- L. Pesin.
CARD:	3/3

CALCAN, V.

The real value fo certain mechanical tests on plastic masses. p. 15.
(Standardizarea, Vol. 9, No. 1, Jan. 1957, Bucuresti, Rumania)

SO: Monthly List of East European Accessions (LEAL) Ic. Vol. 6, No. 8, Aug 1957. Unci.

CALCAN, V.

Mechanical endurance tests on plastic materials. p. 157.
(Standardizarea, Vol. 9, No. 4, Apr. 1957, Bucuresti, Romania)

SO: Monthly list of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl.

Country	:	Rumania	H-29
Category	:		
Abs. Jour.	:		47775
Author	:	<u>Calcan, V.</u>	
Institut.	:		
Title	:	Effect of A/V and V/A Ratios in Pressure Molding of Plastics.	
Orig Pub.	:	Standardizarea, 1957, 9, Np 10, 469-476	
Abstract : To decrease test results spread and to secure comparable data, it is proposed to standardize specimens in their surface area to volume ratio A/V. -- L. Pesin.			

COUNTRY	:	ROMANIA
CATEGORY	:	Chemical Technology. Chemical Products and Their Uses. Part 4. Synthetic Polymers. Plastics
ABS. JOUR.	:	RZKhim., No. 1 1960, No. 3014
AUTHOR	:	Iacobescu, D.; Galcar, V.
TYPE	:	Romanian AS
TITLE	:	Study of the Contraction of Certain Plastics Based on Phenolfurfural Resin
ORIG. PUB.	:	Studii si cercetari msc. apl. Acad. RPR, 1958, 9, No 3, 679-693
ABSTRACT	:	As a result of determination of the contraction during the compressing of discs 4 mm thick with a diameter from 10 to 120 mm from phenolfurfural resin (I) with 15% uretropin, press-powder (PP) based on I with wood flour as a filler, PP conditioned at 60-65° (PPC), press-material (PM) based on I, filled with textile scraps, and PM conditioned at 60-65° (PMC), it was found that the contraction in
CARD:	:	1/4

COUNTRY : R
CATEGORY :

ABS. JOUR. : RZKhim., No. 1 1960, No. 3014

AUTHOR :
INST. :
TITLE :

CRIG. PUB. :

ABSTRACT cont'd : samples of small dimensions increases with the diameter and only beyond the limit of definite dimensions (diam. 80-90 mm) it becomes practically constant. Within, the absolute value of the contraction in samples of large dimensions decreases in the order of I (1.2%) → F_P (0.92%) → F_{PC} (0.83%) → F_M (0.63%) → F_{HIC} (0.26%). The appearance of the linear dependence of variation of the dimensions at the compression of

CARD: 2/4

H-150

COUNTRY :	
CATEGORY :	H
AGS. JOUR. :	RZKhim., No. 1 1960, No. 3014
AUTHOR :	
SUBJ. :	
TITLE :	
ORIG. PUB. :	
ABSTRACT cont'd	large samples is explained by a tendency towards the development in them of an equilibrium between the growth of the area and the growth of the volume, which verified the conditions of pressing. When designing presses, it is not recommended to use the values of contraction determined for the standard samples, but to apply for this purpose the diagrams of the dependence of the contraction
CARD:	3/4

COUNTRY :
CATEGORY :
ARS. JOUR. : RZKhim., No. 1 1960, No. 3014
AUTHOR :
INST. :
TITLE :
CNRG. PUB. :

ABSTRACT : upon the dimensions of the product and to take
cont'd into account that by conditioning it is pos-
sible to considerably decrease the absolute
value of contraction.-- L. Pasin

CARD: 4/4

71750

R/008/60/000/003/003/007
A125/A026

AUTHORS: Pelecudi, Chr., and Calcan, V. I.

TITLE: Contributions to the Synthesis of the Mechanisms of Cyclic Curves

PERIODICAL: Studii și Cercetări de Mecanică Aplicată, 1960, No. 3, pp. 627-650

TEXT: Subject article deals with an important family of cyclic curves, which can easily be obtained by mechanical means and which have some important properties regarding their use in modern engineering. Cycloids are obtained by rolling a circle externally or internally around another circle. The corresponding plane motion is achieved by rotating two bars O_0O_1 and O_1O_2 (Fig. 1), jointed at the basis in O and between themselves in O_1 . Both bars have absolutely constant and different angular speeds. By connecting new jointed bars to this system and making them rotate with absolute different angular speeds, higher planetary motions are obtained. The practical use of such a mechanism with jointed bars and gears is awkward. The utilization of some separate revolving motions in different points of the plane and the combination with a pantograph eliminates the greatest part of the difficulties and enables the complete drawing of the cyclic curves. Reference is made to the mechanism presented by D. Maros and

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R/008/60/000/003/003/007
A125/A026

Contributions to the Synthesis of the Mechanisms of Cyclic Curves

A. Csulak for the combination of two rotations (Ref. 2). The use of a second pantograph could multiply the possibilities of the mechanism. An interesting case is given by projecting one of the representative vectors onto the direction of the other vector. The authors then present several important properties of the higher cyclic curves. A summary examination of the given curve with regard to an intersection with a straight line, to the maximum radial numbers, etc., will give fairly exact indications on the cyclic curves. Convenient approximations can be obtained by using the methods of Fourier, Gaus, Taylor and Chebyshov. The authors examine then the synthesis of mechanisms for lower cyclic curves, obtained by using a polygon with two jointed bars: a) Connection of two rotations; b) Connection of a rotation with a translation; and c) The case of a vector rotating with a harmonically variable amplitude. The calculations mentioned enable the synthesis of mechanisms for the achievement of curves. In a future work the authors will study the properties of higher cyclic curves. There are 16 figures and 10 references: 4 Soviet, 2 Rumanian, 2 German and 2 Austrian.

SUBMITTED: February 13, 1960

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22246
R/008/60/000/005/004/014
A231/A126

16.5600

AUTHORS: Pelecudi, Chr., and Calcan, V. I.

TITLE: On the synthesis of the mechanisms of higher cyclic curves

PERIODICAL: Studii și Cercetări de Mecanică Aplicată, no. 5, 1960, 1133 - 1147

TEXT: In a previous work the authors have dealt with the synthesis of lower cyclic curves, obtained by the composition of two rotations or one rotation and a translation. In the present article they extend the results to the composition of three motions, using for the closed plane curves the approximation methods. In case of diagrams of lesser accuracy, the approximate synthesis can be accomplished by the composition of three motions for a characteristic medium curve, above which the influence of the fourth motion can be applied. This motion is expressed by the revolution of a bar of a smaller length but with a greater angular speed. After having established the basic curve, the lengths or angular speeds of the component vectors can be varied in small steps, in order to obtain the desired deformation of the curve. For algebraic cycles of the third order with a revolv-

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On the synthesis of the mechanisms of...

ing symmetry axis, at which the vectors are co-linear in the initial position, $R_1 > R_2 > R_3$, and ω_1 ; ω_2 ; ω_3 ; are the lengths and angular speeds of the N_1 ; N_2 ; N_3 respective elements of the mechanism. The complete revolution number is

$$N_p = \omega_p \frac{D}{\Delta}, \quad (3),$$

where D is the common denominator and Δ the common factor of the angular speeds. The number of the M symmetry axes is the greatest common factor of the differences $N_1 - N_3$ and $N_2 - N_3$. $N_1 = MK_1 + N_3$; $N_2 = MK_2 + N_3$, (4). The angle in the center of two symmetry axes is $2\pi/M$. On these axes,

$$|z| = \sum_{i=1}^3 \pm R_i,$$

according to the direction of the co-linear vector from the initial position. An approximation method based on a development in the Fourier series with complex terms of the closed plane curves is used for higher cycles. Thus, the trigonometrical polygons, the coefficients of which correspond to those of the Fourier series, supply the smallest average quadratic deviations. The development

$$z = \sum_{m=-\infty}^{+\infty} C_m e^{imt}, \quad (5)$$

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supplies at a given moment the position of the point which generates the curve and gives the possibility of a quick determination of the speeds and accelerations

$$\dot{z} = i \sum_{m=-\infty}^{+\infty} C_m e^{imt}, \quad (6);$$

$$\ddot{z} = - \sum_{m=-\infty}^{+\infty} m^2 C_m e^{imt}, \quad (7).$$

For a certain plane curve, the determination of the Fourier coefficients is given. The integrals I_{mp} can be computed on the basis of the cases shown in Figures 4 and 5. For the calculation of the \sum_m sum, one can use the graphical method by constructing a polygon of L_k sides and the respective angles $\alpha'_k - m(k-1)\frac{2\pi}{n}$, connected directly to the initial polygon (Fig. 6). The establishment of the \sum_m sum is reduced to polygons with γ rotation symmetries, i.e. with $\frac{n}{\gamma}$ sides included between two symmetry axes.

The angle α'_k can be obtained from $\alpha'_k = 180 + 2\gamma - \alpha_k$. At a new symmetry which corresponds to a 2γ rotation angle, one obtains: $\alpha''_k = 2\gamma - \alpha'_k$. The L_k side at the first symmetry is $\frac{2n}{\gamma} - k + 1$ and at the second symmetry

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R/008/60/000/005/004/014
A231/A126

On the synthesis of the mechanisms of...

$\frac{2n}{2} + k$. Thus, two geometrical progressions are resulting which represent the first two groups, obtaining the others by rotating the angles 2α , 4α , etc., the sum of which is $\frac{\alpha}{2}$ if $m = 1 + \lambda n$. Graphically, the L_k vectors of $\alpha_k - (2k - 1)\frac{m\pi}{n}$ angle are first constructed and the resulting vector is then projected onto the vertical axis. Considering the time interval to be variable in function of the length of the respective side, the authors establish equations for the constant speed and equations for the constant acceleration. In regular polygons, both cases (a and b) supply:

$$C_{mp} = \frac{ne^{i\alpha} 1 \cdot I_{mp}}{2\pi(m+1)^p}, \quad (33),$$

$$\text{since } \alpha_k = \alpha + (k-1)\frac{2\pi}{n} \text{ and } \sum_m = ne^{i\alpha} \text{ for } m = 1 + \lambda n, \quad (34).$$

Replacing the values of I_{mp} , the authors obtain, for plane curves, formula

$$C_n = \frac{1}{2\pi mi} \int_0^{2\pi} v(t) e^{i(\alpha t - \omega t)} dt, \quad (41)$$

At the returning points of the curve it has to be considered that the speed and eventually the next derivatives are annulled. Since the position vector of a polygon is given by $z = z_{k-1} + s_k(t)e^{i\alpha k}$, the hodographs of the vectors

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will appear as a variation of the time module on the direction of the α_k angle. According to the second part of the scheme, the general shape of I_{mp} is

$$I_{mp} = i \frac{(\varphi-n)}{m} \frac{o_p}{2} 2^p \sin^p \frac{m\alpha}{2} \sin m\alpha \sin 2m\alpha \dots \sin 2^{p-3} m\alpha e^{-im\varphi-\frac{m}{2}\alpha}, \quad (42)$$

and C_{mp} is given by

$$C_{mp} = \frac{\sum_m}{2\pi mi} \frac{\sin \alpha_{p-1}}{\alpha_{p-1}} \prod_{q=1}^{p-1} \frac{\sin \alpha_q}{\alpha_q} e^{-i\alpha_q}, \quad (44)$$

$$\alpha_q = \frac{m\pi}{n2^q}$$

The terms of the product vary according to $\frac{\sin \alpha}{\alpha}$ (Fig. 9). The authors finally present an application of this method. There are 10 figures and 5 references: 3 Soviet-bloc and 2 non-Soviet-bloc.

SUBMITTED: May 25, 1960

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 R/008/60/000/005/004/014
 A231/A126

On the synthesis of the mechanisms of...

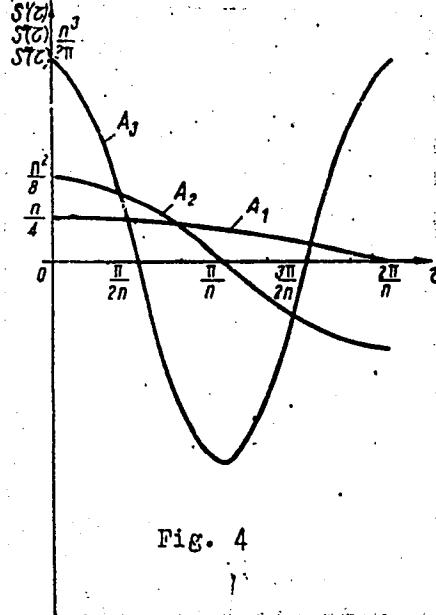


Fig. 4

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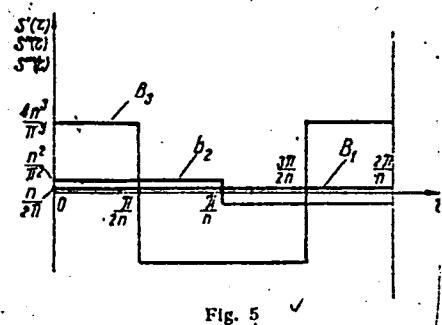


Fig. 5

On the synthesis of the mechanisms of...

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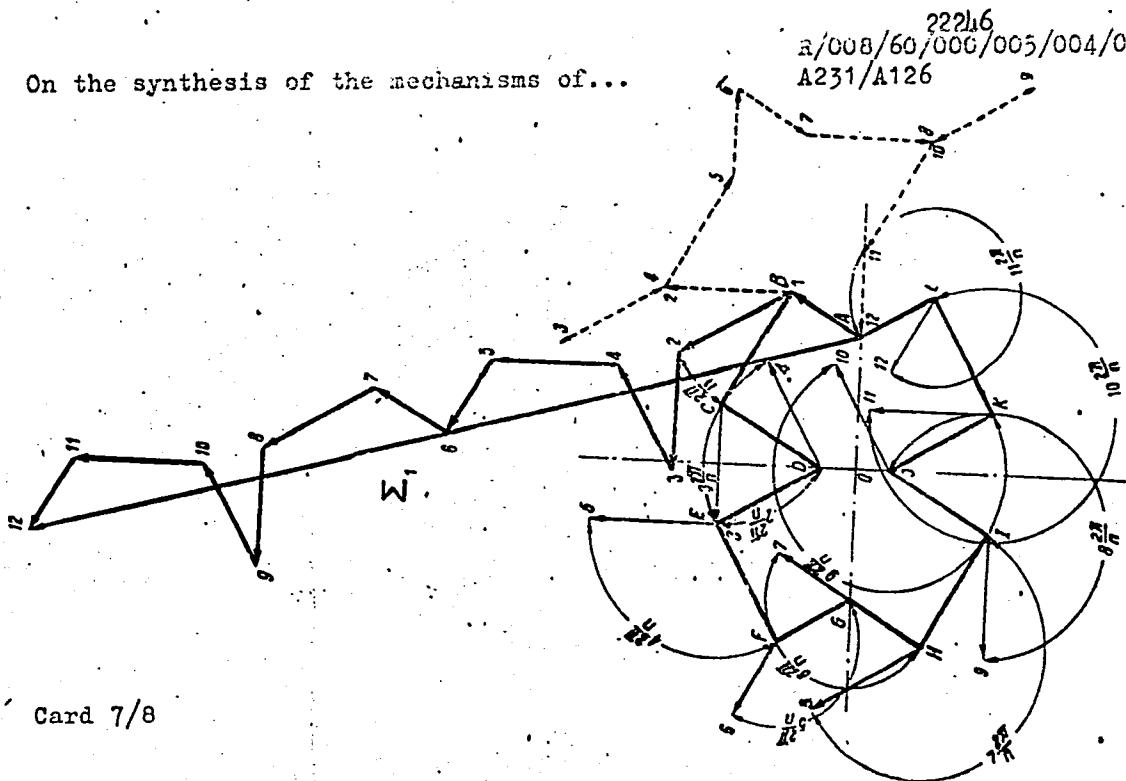


Fig. 6

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On the synthesis of the mechanisms of...

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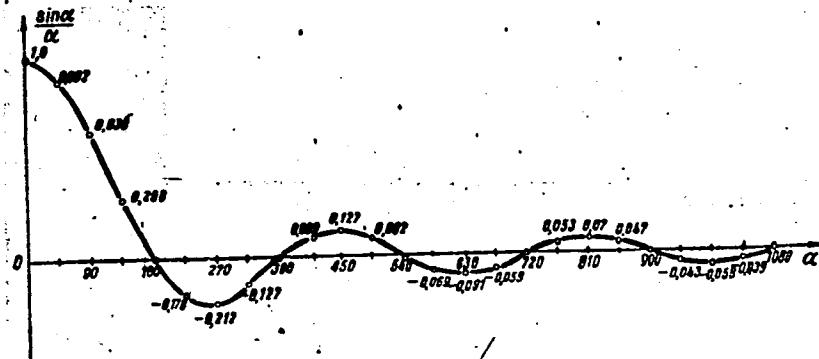


Fig. 9

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CALCANDI, V.

New method of photometric dosage of flavonoids and their 3-glycosides. p. 99.

STUDII SI CERCETARI DE CHIMIE

Vol. 4, No. 1/2, Jan./June 1956

Rumania

Source: EEAR, Vol 5, No. 10 Oct. 1956

SOFONEA, I.; CALCANDI, V.; CIROPOL, Josefina; RETEZEANU, Maria

Contributions to the dynamics of the accumulation of cardiotonic glycosides in the leaves of Digitalis purpurea L. Rumanian M. Rev. 2 no.2:94 Apr-June 58.

(*DIGITALIS*
purpurea, dynamics of accumulation of cardiotonic glycosides
in leaves)

Calcatin, N.

Category: Rumania/General Division. Problems of Teaching.

A-7

Abs Jour: Referat Zh.-Biol., No 9, 10 May, 1957, 35005

Author : Calcatin, N., Palade, L.

Inst : ~~not given~~

Title : The Hedges Around the School Plot

Orig Pub: Natura (Romin.), 1956, 8, No 2, 131-134

Abstract: It is recommended that hedges around school plots be created of various decorative plants: shading, quick-growing, prickly, and which will stand up to shearing well. The methods and dates of planting are explained, and also the norms for applying fertilizer. The care necessary for the plants is also described.

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RUMANIA

ARDELEAN, I., Professor; ANGELESCU, C., MD; DRAGUSANU, I., MD;
CERNATESCU, V., MD; CALCIU, A., MD.

Bucharest, Iziona, No 6, Nov-Dec 63, pp 503-506

"Individual and Collective hygiene of Construction Workers
on the Building Sites in Bucharest."

(57)

CALCIU, M.

Acta Paediatr. Soc. Vol. 10/5 Pediatrics May 56

1036. CALCIU M. and GRÜNBERG I. Tuberculosis Institute, Bucharest. *Tuberculoza buloasă. Bullous tuberculosis FTIZIOL. (Bucarest) 1955, 4/1 (28-35) Illus. 5

A case of bullous tb, the sixth known in literature (the first five described by Debré). An eight-month-old child admitted to hospital with the diagnosis of caseous bronchopneumonia, developed, under streptomycin treatment, many clear zones in both lungs. Post-mortem examination showed that they were not tuberculous cavities, but bullous formations as a result of distension of the modified bronchial wall. A distinction should be made between bullous tb, which is a generalized process due to a severe evolution of tb, and bullous emphysema, which is localized to a bronchial territory. Lymph-node bronchial fistulization was not present, therefore the latter has not to be considered as an indispensable pathogenetic factor.

Nasta - Bucharest (XV, 7)

CALEOIANU C.

Rumania/Analytical Chemistry. General Topics.

G-1

Abs Jour : Referat. Zhurnal Khirziya, No 6, 19472.

Author : C. Calcoianu.

Inst : -

Title : Reagents and Standardization.

Orig Pub : Standardizarea, 1956, 8, No 6, 34-35.

Abstract : Some supplements to STAS (GOST) 4525-54 "Reagents, Rules for Their Inspection, Packing and Marking" are proposed. The following is recommended in them: paraffinization of packing materials for some reagents, indication of the necessary chemical vessels in each standard and prohibition of repacking the reagents by commercial organizations.

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-9-

CALCZYNSKA-KARLOWICZ, M.

Theorem on families of finite sets. Bul ac Pol mat 12 no.2:
87-89 '64.

1. Institute of Mathematics, Polish Academy of Sciences,
Warsaw. Presented by K. Kuratowski.

R/003/63/014/001/002/002
A065/A126

AUTHOR: Căldăraru, H.

TITLE: Spectrochemical analysis of high-purity indium

PERIODICAL: Revista de Chimie, v. 14, no. 1, 1963, 39 - 41

TEXT: Based on the publications by H. Irving and F. J. C. Rossotti (J. Chem. Soc. nr. 6, jun., 1955, p. 1,927; J. Chem. Soc. nr. 6, Jun., 1955, p. 1,938; J. Chem Soc. nr. 6, Jun., 1955, p. 1,946) and by R. Bock, H. Küsche and E. Bock (Z. Anal. Chem., 138, 1953, p. 168) the author has worked out a chemical concentration method of the following 10 elements, being present in metallic indium: Cu, Ag, Zn, Cd, Al, Pb, Bi, Cr, Mn, and Ni. For the determination of these impurities, a spectrochemical analysis has been employed, which consisted of a preliminary evaporation of the indium-impurities solution on the surface of a coal electrode, the burning of the solution in an a-c electric arc, and the comparison of the results with the results of a standard solution. Described are the operation method, the preparing of the standard solution and the interpretation of the results. The use of this method has guaranteed a high sen-

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Spectrochemical analysis of high-purity indium

R/003/63/014/001/002/002
A065/A126

sitivity, ranging between $1 \cdot 10^{-4}$ and $3 \cdot 10^{-7}\%$, and the elimination of errors caused by an eventual segregation of the impurities of the sample. Electric arc produced by a-c proved to be the most advantageous excitation power source, and a non-processed coal surface the best form for the evaporation of the solution. This method may also be applied to the analysis of less pure indium, without preliminary concentration. There are 5 tables.

Card 2/2

CALDARARU, H.

Spectrochemical analysis of high-purity aluminum. Rev chimie Min
petr 14 no.6:349-350 Je '63.

CIRONEANU,I., dr.; DOBINDA,B., dr.; CALEA, Lucia, ing.

Modernization of slaughtering rooms at the Braila Slaughterhouse.
Ind alim anim ll no.3:80-82, 84 Mr'63

1. Intreprinderea regionala a industriei carnii, Galati.

POLAND/Optics - Physical Optics

K-5

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 6731

Author : Calecki A., Wojtczak J.

Inst : Adam Mickiewicz University, Poznan, Poland

Title : The Light Sensitivity of Copper Compounds

Orig Pub : Bull. Soc. amis sci. et lettres Poznan, 1956-1957 (1958),
Bl4, 279-282

Abstract : An investigation was made of the photolysis of copper compounds in the form of gelatine emulsions and in the form of dry deposits on filter paper. Simultaneously, measurements were made of the conductivity and of the pH. It was established that the highest sensitivity and the strongest change in color is possessed by CuCl, that CuBr is weaker in that respect, and that CuI is the weakest. Anhydrous salts have no sensitivity to light. The photochemical reaction is to a certain extent reversible -- the darkening disappears gradually in darkness. However, the obtained images can be developed and fixed by means of ordinary photographic plates. Emulsion-

Card : 1/2

POLAND/Optics - Physical Optics

K-5

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 6731

less salts and filter paper are also sensitive both to infrared and to ultraviolet rays. The article contains samples of contact prints, obtained on emulsions with CuCl and CuBr. -- G.G. Neuymin

Card : 2/2

92

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7

CALEK

Cosmis space and geodesy. Geod kart obzor 8 no.12:240 D '62.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7

CALEK, Jiri, inz.

Economic importance of the renewal of the highway transportation
car park. Doprava no. 2:102-110 '63.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7"

S/262/62/000/009/015/017
1007/I207

AUTHOR: Čálek, Jiří

TITLE: The influence of washing of engines using lube oils with additives

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 42. Silovyye ustyanovki, no. 9, 1962, 58, abstract
42.9.337. "Ropa a uhlie", v. 3, no. 11, 1961, 338-340

TEXT: The effects of washing the lubricating system of the engine on its wear resistance are given. The investigations were conducted under field conditions for one year with six engines. As shown by these tests, washing of the lubricating system for 10-15 minutes, reduces the wear of cylinders, piston rings and bushings of connecting-rod bearings.

[Abstracter's note: Complete translation.]

Card 1/1

CALEK, Jiri, inz.

New regulations for a planned maintenance service.
Siln doprava 11 no.1:23-24 Ja '63.

1. Ministerstvo dopravy a spoju.

CALEK, Jiri, inz.

Czechoslovak equipment for gas and service stations. Siln doprava 11
no, 2;16-19 F '63.

1. Ministerstvo dopravy.

CALEK, Jiri, inz.

Czechoslovak garage equipment. Siln doprava 11 no.3:16-18
Mr '63.

1. Ministerstvo dopravy.

CALEK, Jiri, inz.

Czechoslovak garage equipment; commercial automobile
washrcm. Siln doprava 11 no.4:16-18 Ap '63.

1. Ministerstvo dopravy.

CALEK, Jiri, inz.

Czecholovak garage equipment; technical servicing and control equipment. Siln doprava 11 no.5:16-17 My '63.

1. Ministerstvo dopravy.

CALEK, Jiri, inz.

Czechoslovak garage equipment. Siln doprava 11 no. 6:16-19 Je '63.

1. Ministerstvo dopravy.

CALEK, Jiri, inz.

Czechoslovak garage equipment. Siln doprava 11 no.7:16-18 '63.

1. Ministerstvo dopravy.

CALEK, Jiri, inz.

How to improve the technical conditions of vehicles. Siln
doprava 11 no.11:2-4 N '63.

1. Ministerstvo dopravy.

CALEK, Jiri, inz.

Who takes part in technical development. Siln doprava 12
no.5:10-11 My '64.

1. Ministry of Transportation.

CALEK, Jiri, inz.

Technical development of garage equipment. Siln doprava 12
no.6/7:10-11 '64.

1. Ministry of Transportation, Prague.

CALEK, Jiri, inz.

Garage equipment in the German Democratic Republic. Siln doprava
12 no.10:6-8 0 '64.

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7

CALEK, Jiri, inz.

Garage equipment in the German Democratic Republic. Siln doprava 12
no.12:10-11 D '64.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7

CALEK, Jiri, inz.

Improvers' suggestions. Siln doprava 13 no.1:7 Ja '55.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7"

CALEK, Jiri, inz.

Garage equipment in the German Democratic Republic. Siln
doprava 12 no.11:12-14 N '64.

KOVACEVIC, P.; PRIMORAC, V.; CALETA, V.; MARUSIC, N.

Comparative studies on the seasonal dynamics of some soil properties of the parapodzol type in an orchard and the Jazbina forest near Zagreb, 1960. Zemljiste biljka 12 no. 1/3:233-238 Ja-D '63.

1. Institute of Pedology and Soil Technology of the Agricultural Faculty, Zagreb.

CALETKA, Rostislav; KYRS, Miroslav

Mechanism of zirconium sorption on silica gel from nitric acid medium. Jaderna energie 9 no.10:328 0 '63.

1. Ustav jaderneho vyzkumu, Ceskoslovenska akademie ved, Rez u Prahy.

KYRS, M.; CALETKA, R.; SELUCKY, P.

Improvement of the extractive separation of uranium and zirconium by using zirconium masking reagents. Coll Cz Chem 28 no.12:3337-3344 D '63.

1. Institut fur Kernforschung, Tschechoslowakische Akademie der Wissenschaften, Rez bei Prag.

ACCESSION NR: AP4035366

Z/0034/64/000/005/0379/0379

AUTHOR: Kirs, M. (Engineer, Candidate of sciences); Beran, M. (Graduate chemist);
Caletka, R. (Graduate chemist); Havelka, S. (Engineer, Candidate of sciences)

TITLE: Method of extractive separation of uranium, plutonium and zirconium

SOURCE: Hutnické listy, no. 5, 1964, 379

TOPIC TAGS: extractive separation, uranium, plutonium, zirconium, nitrate,
nitric acid, masking agent, polyphenol, hydroxyl group, carbonyl group, sulfon
group, oxalic acid

ABSTRACT: The invention relates to a method of extractive separation of uranium,
plutonium and zirconium in the form of nitrates from aqueous solutions of nitric
acid with organic solvents. To the aqueous solution of the nitrates of the
separated elements and nitric acid are added, as masking agents, polyphenols
containing at least two hydroxyl groups in positions 1,2 on the benzene ring or
in positions 1,8 on the naphtalene structure, and at least one more hydroxyl,
carbonyl or sulfon group in any other position. This yields a more effective
masking of the zirconium, while the extraction of plutonium is not impaired.

Card 1/2

ACCESSION NR: AP4035366

With the use of the same concentrations of masking agents, the procedure according to the invention yields 3--10 times more effective separation of the above-mentioned elements than with the oxalic acid heretofore used.

ASSOCIATION: none

SUBMITTED: 23Mar63

DATE ACQ: 20May64

ENCL: 00

SUB CODE: GC

NO REF Sov: 000

OTHER: 000

Card 2/2

CALETKA, R.; KYRS, M.

On the mechanism of zirconium sorption from nitric acid medium
on silica gel. Coll Cz Chem 29 no.5:1150-1162 My '64.

1. Institute of Nuclear Research, Czechoslovak Academy of
Sciences, Rez near Prague.

Cahlik, Rostislav

Chemistry of aqueous solutions of zirconium. Atom. Energy 53
no. 3;359-376 fr 1964.

J. Nuclear Research Institute, Czechoslovak Academy of Sciences,
Rez near Prague.

CALETKOVA, J.

Breastplate. Experimental Series. Vol XXI, No 2, 1965.

(13) (22)

1. "The Production, Distribution and Quality of Veterinary-Pharmaceutical Products and Materials for the Veterinary Services," by V. K. V. and others, in Russ. pp 52-55.
2. "Identification of Agents in Culture Medium," by A. S. ZUBOVICH, L. M. GOLIKH and Z. V. TIKHONOV, in "Proceedings of the Institute of Microbiology at the Biomedical Research Institute of the Academy of Sciences, University (Universitaetskii Instituts) in Moscow," p 55-58.
3. "Some Said - A Food Preservative," by I. FEDOROV, in "Proceedings of the Institute of General Chemistry, University in Cracow," issue No 23, pp 57-62.
4. "The Testing of the Herbs and Herbs of Plants in the USSR of their Chemical and Physico-Chemical Properties," by N. S. Slobodova, in "Institute for Plant Protection (Institut po Protsveta i Zashchite Rastvorov)," pp 52-65.
5. "The Use of Organophosphorus Compounds in Pest Control," by J. UZICKA, A. KARWOWSKA and J. KROCHAK, in "Proceedings of the 1962 International Congress of Pesticide and Fertilizer Manufacture in Warsaw, Poland," and of the 1963 "Joint International Pesticide Congress," pp 57-62.
6. "New Mechanisms of Insecticide Action Induced by the Synthetic Disulfoton," by M. V. VASIL'YEV, "Zashchita rastvorov," No 1, 1966.
7. "On the Problem of Preparing Pesticide Solutions," by I. S. KALININA, or the IFAJ Chemical Laboratory (Vologda Chemical Laboratory) in Pravdinsk, pp 52-55.
8. "The Effect of Chemical Insecticides on the Egg of the Red Palm Weevil," by J. JAKOBOWICZ, "Zashchita rastvorov," No 7-8, 1966.
9. "New Drugs Promising - Synthesized," by E. L. KARACHEL (results not given).

— 1/2 —

CALFI, Bela
SURNAME, Given Names

(1)

Country: Hungary

Academic Degrees: Dr

Medical Director (igazgato-foorvos) of the Labor Therapy Institute of the
Affiliation: Ministry of Public Health (Egeszsegugyi Miniszterium Munkatherapias In-
tezete) in Pomaz

Source: Budapest, Magyar Pszichologai Szemle, Vol XVIII, No 2, 1961, pp 173- 183

Data: "Labor Therapy in the Institute of Labor Therapy in Pomaz."

670 981643

CALIULI I:

"Advanced money every month."

p. 12 (Drumul Belsugului) No. 5, May 1957
Bucharest Rumania

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. ?, no. 4,
April 1958

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7

CALIC, Dusan, dr

Referring to some economic problems which Comrade Tito mentioned
in his recent speech. Zavarivanje 5 no.6:159-160 Ag '62.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7

CALIC, Dusan, dr

Notes on some economic problems. Elektrotehnika Hrv 5 no.4:166-167
'62.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7"

TASOVAC, Borivoje, prof.dr; CALIC, Nada, dr; JAKOVLJEV, Dusan M.,dr;
DJUKIC, Dragica, dr;

Tuberculous meningitis and its therapy with streptomycin; cytology
of the cerebrospinal fluid. Srpski arh.celok.lek.77 no.12:1619-
1627 Dec.54.

1. Pedijskra klinika Medicinskog fakulteta u Beogradu. Upravnik:
prof. dr Matija Ambrozić.

(TUBERCULOSIS, MENINGEAL, therapy,
streptomycin, eff. on CSF)

(STREPTOMYCIN, therapeutic use,
tuberc., meningeal, eff. on CSF)

(CEREBROSPINAL FLUID, in various diseases,
tuberc., meningeal, eff. of streptomycin)

[REDACTED]

Prof Dr R. TROKOVAC, Mr D. DJURIC and Dr N. CMIĆ, Pediatric Clinic
(Pedijatritska klinika) Head (Izvršni direktor) Prof Dr R. TROKOVAC, Belgrade.

"Staphylococcal Infections and Arthritis."

Belgrade, Medicinski Glasnik, Vol 16, No 10-12, Oct-Dec 1962; pp 422-425.

Abstract [Ferrari summary modified]: A general review of joint infections with staphylococci in children; 4 case reports. Stress on specific bacterial diagnosis and chemotherapy based on sensitivity tests of the isolated strains. Eight Western 1 Yugoslav references.

1/1

[REDACTED] YUGOSLAVIA [REDACTED]

Prof Dr B. TASOVAC, Dr N. CALIC and Dr D. GJUKIC [Affiliation not given.]

"Two Cases of Congenital Myxedema Treated Early."

Belgrade, Medicinski Glasnik, Vol 17, No 2, Feb 63; pp 78-81.

Abstract Discussion of vital need to diagnose congenital hypothyroidism at earliest possible time; with 2 case reports, girls who started receiving thyroid replacement therapy at 5.5 and 3.5 months of age respectively; their IQs at age 5.5 and 6.5 years, were 91 and 67. The second one probably received too low a dose and was treated with interruptions. Eleven Western references.

1/1

TASOVADZ, Borivoje; DUKIC, Dragidza; CALIC, Nada; JAKOVLJEV, Dusan M.

Acute viral meningitis with evolutive tuberculous infection.
Srpski arh. celok. lek. 91 no. 9:783-793 S'63.

1. Pedijatrijska klinika Medicinskog fakulteta Univerziteta u
Beogradu. Upravnik: prof. dr. Borivoje Tasovadz.

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7

TASOVAC, Borivoje; CALIC, Nada; DUKIC, Dragica; NIKEZIC, Marija; ROLOVIC, Milana.

The Wissler-Fanconi syndrome. Srpski arh. celok. lek 91
no.10:931-938 0:63.

1.Pedijatrijska klinika Medicinskog fakulteta Univerziteta
u Beogradu. Upravnik: prof.dr. Borivoje Tasovac.

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APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7"

NEGOVANOVIC, Dragan; CALIC, Nada

A rare localization of primary infection in a child. Tuberku-
loza 15 no.1:83-84 Ja-Mr '63.

1. Pedijatrica klinika Medicinskog fakulteta Univerziteta u
Beogradu - Upravnik: prof. dr Borivoje Tasovac.

(TUBERCULOSIS IN CHILDHOOD)

(TUBERCULOSIS, PULMONARY)

(LUNG DISEASES) (ABNORMALITIES)

S

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7

NEGOVANOVIC, D., dr.; CALIC, N., dr.; CVORIC, A., dr.; DUKIC, D., dr.
(Beograd)

Pulmonary edema in acute glomerulonephritis in children. Med.
Glas. 18 no.11:375-378 N '64

1. Pedijatrijska klinika Medicinskog fakulteta u Beogradu
(Upravnik: prof. dr. B. Tasovac)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7"

CALIC, P.

The effect of mineral fertilizers in increasing the production of lucerne, red clover, and lawns.

p. 23 (Poljoprivreda. Vol. 4, no. 6, June 1956. Beograd, Yugoslavia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2, February 1958

CNAIC 2

Belgrade, Acta Veterinaria, Vol. 11, No. 2, 1981

1. "Proteptide Hydrolysis by Iso- β -Sugars", J. L. G. L. VAN DER HORST, D. P. RYAN, A. J. M. VAN DER HORST, INSTITUTE FOR CHEMISTRY AND INSTITUTE OF PHYSIOLOGY AND PHYSIOTHERAPY, Belgrade; (English Summary) pp 2-8.
2. "Effect of Ketalonal on 'IgM' Uptake by the Thymus", M. JAZDINSKA, UNCOMPRESSING KINETICS; Institute of Pathology, Veterinary Faculty, Belgrade; (English Summary) pp 9-15.
3. "Evacular System of Liver in *Gallus domesticus*", O. JELLINE, EQUINE N. ANATOMICAL, Anatomical Institute, Belgrade; pp 16-27.
4. "Eliminating Chickens Against Newcastle Disease by Administering Vaccine in the Drinking Water", Z. JUJIC, I. H. HUNG, VETERINARY INSTITUTE, M.S. Karađorđe Republika Srpska, People's Republic of Serbia, and 4th Department of Veterinary Faculty, Belgrade; (English Summary) pp 28-35.
5. "Bacteriological Content of Contact Area of Hens and Spender-Chicks Following Vaccination at 85 C. for 20 Minutes", J. BUNZEL, EQUINE N. ANATOMICAL; Institute of Veterinary Technology, Belgrade; pp 37-44.
6. "Transmission of Nasal Trichomonads of *PM2* to the Ocular tract of Cows and Sheep", J. BUNZEL, O. BONKOVIC, Veterinary Clinic, Veterinary Faculty, Belgrade; (English Summary) pp 45-50.
7. "Effect of Excluding Venous Outflow or Urine Under an Operative Instrument and Clipping for Surgery, Oncology and Orthopaedics", Veterinary Faculty, Belgrade; (English Summary) pp 51-58.
8. "Effect of Ultrasonic and Some Antiseptics on Trichomonas suis and Eggs of Toxocara canis", I. K. SAVIC, T. Z. INSTITUTE OF PARASITOLOGY, Parasitology Institute, Belgrade; pp 59-67.
9. "Early Forms of Diagnoses in River and Lake Shells in Serbia", E. R. MILNE, Parasitology Institute, Veterinary

*EZ
30*

TASOVAC, Borivoje, prof. dr.; CALIC-PERISIC, Nada, dr.; NEGOVANOVIC,
Dragan, dr.

Differential diagnosis of a paratracheal adenopathy and thymus
lesions in small children. Med. glas. 17 no.10:389-393 O '63.

1. Pedijatrijska klinika Medicinskog fakulteta u Beogradu
(Upravnik: prof. dr B. Tasovac).

(TUBERCULOSIS IN CHILDHOOD)
(TUBERCULOSIS, PULMONARY)
(DIAGNOSIS, DIFFERENTIAL)
(THORACIC RADIOGRAPHY)
(TUBERCULOSIS, LYMPH NODE)
(THYMUS GLAND)

TASOVAC, Borivoj, prof. dr.; CALIC-PERISIC, Nada, dr.; BUKIC, Dragica, dr.

Viral pneumonia following influenza infection and acute
myocarditis. Med. Glas. 18 no.11:372-374 N '64

1. Pedijatrijska klinika Medicinskog fakulteta Univerziteta u
Beogradu (Upravnik: prof. dr. B. Tasovac)

CALIC-PERISIC, Nada; DJUKIC, Dragica; KOSTIC, Svetislav; DJUKNIC, Vitemir

Diagnostic difficulties in primary tuberculosis in children.
Tuberkuloza 17 no.3:216-220 My-Je '65.

1. Pedijatrica klinika medicinskog fakultata, Beograd
(Upravnik: prof. dr. Borivoj Tasovac).

TASOVAC, Borivoje; CALIC-PERISIC, Nada; DUKIC, Dragica; POPOVIC-FOLLOVIC,
Milana

Early tonsillectomy in acute glomerulonephritis. Srpski arh.
celok. lek. 93 no.1:1-5 Ja '65.

1. Pedijatrijska klinika Medicinskog fakulteta Univerziteta u
Beogradu (Upravnik: prof. dr. Borivoje Tasovac).

CALIKOWSKI, Adam

The mineralization of Triassic limestones of Zawada in Upper Silesia
and its connection with Lias deposits. Kwartalnik geol 3 no.2:
277-285 '59. (EEAI 9:8)

1. Gornoslaska Stacja Terenowa I.G.
(Poland--Limestone)

GLOGOCZOWSKI, J.J., doc. dr.; CALIKOWSKI, A., mgr.

The chromatographic unit PCHPG-1 for gaseous profiling
of oil wells. Nafta 18 no. 4, 1962. Biul. inst naft 12
no. 1;2 '62.

GŁOCZOWSKI, J.J., doc. dr.; CALIKOWSKI, A., mgr.

Deposit testers of the projectile type. Nafta 18 no.4:Suppl.:
Biul inst naft 12 no.1&1 '62.

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7

GLOGOCZOWSKI, J.J., dr.; CALIKOWSKI, A., mgr

Direct deposit testers designed by the Petroleum Institute. Nafta
21 no.1: Suppl: Biul inst naft 15 no.1/2:3-4 '65.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7"

CALIKOWSKI, J.

TECHNOLOGY

PERIODICAL: PREZGLAD GEOLOGICZNY. Vol. 6, no. 4, Apr. 1958.

CALIKOWSKI, J. Researches on the resistance of ground frozen at a very low temperature. p. 172.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 4
April 1959, Unclass.

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7

CALIKOWSKI, Jan

Determination of effective porosity in rocks. Przegl geol 9 no.12:
649-650 '61.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308010002-7"

CALIKOWSKI, ROMAN

13952* Measurement of the Moment of Friction in the
Bearings of Precision Instruments. Pomiar momentu tarcia
w tozyskach przyrządów precyzyjnych. (Polish.) Roman
Calikowski. Technika lotnicza, v. 10, no. 4, July-Aug. 1933, p.
89-103.

Author has designed friction meter and worked out formulas
for calculating moment of friction in the bearings of aircraft
instruments and magnetic compass. Table, diagrams, graph. 8

CALOKOWSKI Roman

POLAND/Chemical Technology. Chemical Products and Their
Application - Silicates. Glass. Ceramics. Binders.

I-9

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 12519

Author : Calokowski Roman

Title : Synthetic Minerals

Orig Pub : Sztuczne mineraly. Horyzonty techn., 1956, 9, No 7,
302-307 (Polish)

Abstract : A historical review is presented of the making of hard synthetic minerals: diamond, corundum, ruby spinel, topaz, beryl, tourmaline, quartz, chalcedony, nephrite and calcite; data are given on their hardness, refractive index and their utilization. The General Electric Company (USA) produced in 1955, on an industrial scale, synthetic diamonds up to 1.6 mm in size, which do not differ in any way from the natural; their production from a graphite body requires the action of a temperature of 2500° for ~4 hours at a pressure of ~100

Card 1/2

- 67 -

✓ 1298. Colikowski, R., Analysis of working conditions of ball
bearings used in aircraft instruments, based upon Russian and German sources.

THIS IS A CALCULATION OF PRESSURE, MOMENTS, ETC., IN SPHERICAL
bearings used in aircraft instruments, based upon Russian and German
sources. M. Z. Krawchuk, MS

POLAND / Chemical Technology. Chemical Products and H-13
Their Application. Ceramics. Glass. Bind-
ing Materials. Concrete.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1992.

Author : Calikowski, R.

Inst : Not given.

Title : Synthetic Corundum as a Material for Sockets in
Aviation Panel Instruments.

Orig Pub: Techn. lotnicha, 1958, 13, No 2, 34-37.

Abstract: Standards were formulated on ceramic material suitable for preparation of inserts in aviation instruments (AI): the moment of friction between socket and pivot must be the smallest and must not change in the course of amortization of the pivot, socket or due to contact with a lubricating oil and also must not change due to any

Card 1/3

33

POLAND / Chemical Technology. Chemical Products and H-13
Their Application. Ceramics. Glass. Bind-
ing Materials. Concrete.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1992.

Abstract: position of an airplane in space. For the preparation of sockets in Al, only synthetic corundum or the so-called ruby is suitable. A method is known for melting colorless, pink and dark red corundum by the addition of < 2% of Cr₂O₃ and TiO₂ in Verneil furnace. As the result of the melting chemically pure Al₂O₃ with additives or without them, corundum is obtained as rods and "bul'ka" and which then is separated into three types with a yield of ~ 25% of I, 25% of II and 50% of the third type. For manufacturing sockets only I and II types of colorless corundum (leucosapphire) is used. From the third type large

Card 2/3

POLAND / Chemical Technology. Chemical Products and H-13
Their Application. Ceramics. Glass. Bind-
ing Materials. Concrete.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1992.

Abstract: fragments are selected for jewelry and the rest
is utilized for abrasive powders. A method of
of preparation and a technique of sorting arti-
ficial ruby spinel, $MgO \cdot Al_2O_3$, is also des-
cribed. -- S. Glebov.

Card 3/3

34

CALIKOWSKI, R.

TECHNOLOGY

PERIODICAL: MECHANIK, VOL. 31, no.7, July 1958.

CALIKOWSKI, R. Cutting hard mineral materials. p. 363.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4
April, 1959, Unclass.